



IBM WebSphere DataPower Appliances firmware V6.0 adds new processing for mobile and web traffic, delivers support for IBM API Management V2.0, and adds pattern-based configuration

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At a glance

IBM® WebSphere® DataPower® Appliances extend industry-leading, service-oriented architecture (SOA), and business-to-business (B2B), security, control, optimization, and integration capabilities to web, mobile, and API workloads.

DataPower Appliances firmware V6.0:

- Helps reduce infrastructure complexity and lowers total cost of ownership for security and integration gateway solutions.
- Provides API gateway functionality for the IBM API Management V2.0 solution.
- Provides easy-to-use, security-enhanced integration with Worklight® .
- Enables operational agility for WebSphere Application Server Network Deployment environments.
- Helps improve application user experience with fast, more consistent response times and reduces the load on backend systems.
- Enhances integration with IMS™ systems by helping to reduce CPU consumption for System z® .
- Helps provide fast time to value and improved developer productivity with configuration-pattern-authoring and deployment support.

Overview

WebSphere DataPower gateway appliances are uniquely positioned to act as security and integration gateways for a full range of web, mobile, API, SOA, B2B, and cloud workloads in a single, highly security-enhanced, highly consumable, DMZ-ready appliance.

Version 6.0 new features and enhancements:

- Functionality to rapidly enable security, control, integration, and optimized access to web, mobile, and API workloads.
- API gateway functionality for IBM API Management V2.0 solution.
- Mobile web traffic security for IBM Worklight : Easy-to-use authentication integration for Worklight platform.
- Front-end proxy for WebSphere Application Server: Embedded, on-demand router functionality for WebSphere Application Server Network Deployment environments.

- Local response caching and integration with DataPower XC10 Caching Appliance: Optimized application delivery with local response caching on the appliance and seamless integration with elastic caching XC10 appliances.
- Enhanced value for System z : New integration capabilities between DataPower and IMS that allow IMS transactions to easily consume external web services and remote applications to easily consume IMS data as a service.
- Pattern-based configurations: Intuitive and easy-to-use tool for creating and deploying common DataPower configuration patterns.

Key prerequisites

WebSphere DataPower physical appliance or WebSphere DataPower Virtual Edition

For details, refer to the [Hardware requirements](#) and [Software requirements](#) section.

Planned availability date

- June 28, 2013: Electronic availability
- July 22, 2013: Factory shipments on new appliances

Description

Emerging technology trends, like mobile and API management, allow businesses to expand the scope of valuable IT assets to new channels and use cases. These shifts in technology enable businesses to reach consumers, business partners, and clients anywhere in the world at any time. These new opportunities require the enterprise to accommodate additional security capabilities, access controls, and to manage the exponential growth in application traffic.

WebSphere DataPower Appliances provided industry-leading security, control, optimization, and integration capabilities for SOA and B2B platforms for more than 12 years.

WebSphere DataPower firmware V6.0 extends these capabilities to additional business channels and use cases by enhancing support for web applications, mobile, and web API workloads and provides API gateway functions for the IBM API Management V2.0 solution.

Security enhanced web application, mobile, and API gateway

- Enhanced OAuth 2.0 functionality now includes support for public client, implicit grant type, refresh token, and revoke token.
- New Kerberos constrained delegation support, specifically S4U2Proxy based on incoming AP-REQ token, provides flexible authentication flows.
- Provides support for Transport Layer Security (TLS) 1.1 and 1.2 to meet strict security requirements.
- New XQuery 1.0 support provides easy-to-use query and manipulation of XML data.
- Enhanced JSON support allows schema validation through built-in action, and query, extraction, and filter operations on JSON messages through JSONiq.
- Enhanced policy framework support allows dynamic consumption of WS-MediationPolicy artifacts created in WebSphere Service Registry and Repository to enforce service level agreements (SLA) for non-SOAP messages.
- Supports enhanced transaction monitoring support with built-in, monitoring data collection of traffic flowing through multi-protocol gateway service.
- Support for LDAP connection pooling and granular timeout can provide performance and resiliency improvements.
- Delivers enhanced service level monitoring for enforcement, based on data volume.

- Enhanced SSL Proxy service supports user-controlled timeouts and connection limits, and resiliency for misbehaving client or providers.
- Provides support for ISAM 7.0 and TAM 6.1.1 clients to integrate with IBM Security Systems product groups.

Mobile web traffic security for Worklight

- Form-based, login authentication support can enable quick integration with Worklight .
- Ready-to-use configuration patterns are provided to easily deploy DataPower appliances as a proxy and security policy enforcement point in front of the Worklight Server.

Front-end proxy for WebSphere Application Server

Embedded On Demand Router (ODR) capability within DataPower appliances help simplify deployment topologies and provides operational agility, that enable intelligent load balancing decisions to backend WebSphere Application Server Network Deployment environments, that include those running Worklight , based on dynamic, real-time topology, and workload information.

Note: The Application Optimization feature is required for ODR functionality.

Local response caching and integration with IBM DataPower XC10 Caching Appliance

- Provides configuration driven local caching on the appliance for HTTP response messages from backend provider systems.
- Provides built-in, seamless integration with elastic, distributed caching XC10 appliances to cache HTTP response data by using ready-to-use configuration to help provide fast, more consistent response times and help reduce load on backend systems for web services, and mobile and web application traffic.

Enhanced value for System z

WebSphere DataPower historically provided unique capabilities for securing, optimizing, and integrating legacy enterprise assets running in System z . Version 6.0 enhances these capabilities, expanding the value of these critical resources, specifically for transactions that run in IMS .

- IMS Callout feature allows IMS transactions to easily consume external web services via DataPower , with minimal application updates required.

Note: IMS Callout functionality requires one of the following models:

WebSphere DataPower Integration Appliance XI52
 WebSphere DataPower Integration Appliance XI52 Virtual Edition
 WebSphere DataPower Integration Blade XI50B
 WebSphere DataPower B2B Appliance XB62

- IMS DB feature easily exposes IMS data as a service to remote applications.

Note : IMS DB functionality requires one of the following DataPower models:

XG45 or XG45 Virtual Edition (with Database Integration Module feature)
 XI52, XI52 Virtual Edition or XI50B (with Database Connectivity feature)
 WebSphere DataPower B2B Appliance XB62

Pattern-based configurations

Includes an intuitive, easy-to-use tool that runs on DataPower appliances, for creating and deploying common DataPower configuration patterns. Creation of custom, reusable configuration patterns that empower users to deploy proxies for business services by using well-defined and approved pattern, points-of-variability (PoV). This allows scalability of use and can help reduce time to value.

Reference information

For additional information on IBM API Management V2.0 (On-premise), refer to Software Announcement [213-148](#), dated April 23, 2013.

For additional information on WebSphere DataPower Virtual Editions, refer to Software Announcement [212-468](#), dated October 23, 2012.

For additional information on WebSphere DataPower Integration Appliance XI52 Virtual Edition TIBCO Enterprise Message Service feature, refer to Software Announcement [213-029](#), dated January 29, 2013.

For additional information on IBM PureApplication™ System W1500, refer to

- Software Announcement [212-117](#), dated April 11, 2012
- Software Announcement [213-038](#), dated January 8, 2013

For additional information on IBM Workload Deployer V3.1 refer to Hardware Announcement [111-202](#), dated October 4, 2011.

For information on WebSphere DataPower Integration Appliance XI52 and WebSphere DataPower B2B Appliance XB62, refer to Hardware Announcement [111-069](#), dated April 5, 2011.

For information on the WebSphere DataPower Integration Blade XI50B, refer to Hardware Announcement [110-089](#), dated April 27, 2010.

For information on the WebSphere DataPower Service Gateway XG45, refer to Hardware Announcement [111-153](#), dated October 4, 2011.

Availability of national languages

Description	Availability date	Language
WebSphere DataPower firmware V6.0	July 22, 2013	English, French, German, Italian, Spanish, Portuguese (Brazil), Chinese (Simplified), Chinese (Traditional), Japanese, Korean,

Program number

Program number	VRM	Program name
5725-J90	6.0.0	WebSphere DataPower Service Gateway XG45 Virtual Edition
5725-J91	6.0.0	WebSphere DataPower Integration Appliance XI52 Virtual Edition

WebSphere DataPower firmware V6.0 supports these **existing** DataPower physical machines:

Description	Machine type	Model
IBM WebSphere DataPower Service Gateway XG45	7198	32X
IBM WebSphere DataPower Integration Appliance XI52	7199	42X
IBM WebSphere DataPower B2B Appliance XB62	7199	62X
IBM WebSphere DataPower Integration Blade XI50B	4195	4BX
IBM WebSphere DataPower XML Security Gateway XS40	9235	32X
IBM WebSphere DataPower XML Security Gateway XS40 with HDD	9235	3BX
IBM WebSphere DataPower XML Security Gateway XS40 with HSM	9235	34X

IBM WebSphere DataPower XML Security Gateway XS40 with HSM and HDD	9235	3DX
IBM WebSphere DataPower Integration Appliance XI50	9235	42X
IBM WebSphere DataPower Integration Appliance XI50 with HDD	9235	4BX
IBM WebSphere DataPower Integration Appliance XI50 with XG4	9235	43X
IBM WebSphere DataPower Integration Appliance XI50 with XG4 and HDD	9235	4CX
IBM WebSphere DataPower Integration Appliance XI50 with HSM	9235	44X
IBM WebSphere DataPower Integration Appliance XI50 with HSM and HDD	9235	4DX
IBM WebSphere DataPower Integration Appliance XI50 with HSM and XG4	9235	45X
IBM WebSphere DataPower Integration Appliance XI50 with HSM, XG4, and HDD	9235	4FX
IBM WebSphere DataPower B2B Appliance XB60	9235	62X
IBM WebSphere DataPower Low Latency Appliance XM70	9235	6BX

Publications

No publications are shipped with these products.

Technical information

Specified operating environment

Hardware requirements

Supported physical appliances:

- WebSphere DataPower Service Gateway XG45
- WebSphere DataPower Integration Appliance XI52
- WebSphere DataPower B2B Appliance XB62
- WebSphere DataPower Integration Blade XI50B
- WebSphere DataPower XML Security Gateway XS40 (9235 model only)
- WebSphere DataPower Integration Appliance XI50 (9235 model only)
- WebSphere DataPower B2B Appliance XB60
- WebSphere DataPower Low Latency Appliance XM70

WebSphere DataPower Virtual Edition requires one of the following:

- Machine that supports VMware ESX V4.0 Update 2 or V4.1
- Machine that supports VMware ESXi V4.0 Update 2, V4.1, V5.0, or V5.1

Minimum virtual resources for each virtual edition appliance: 4 vCPU and 4 GB RAM

WebSphere DataPower Virtual Edition, deployed on IBM PureApplication System or Workload Deployer, requires one of the following:

- PureApplication System W1500 V1.0.0.4
- Workload Deployer V3.1.0.7 with x86 hardware, that supports VMware ESX or ESXi

Software requirements

WebSphere DataPower Virtual Edition requires one of the following:

- VMware ESX V4.0 Update 2 or V4.1
- VMware ESXi V4.0 Update 2, V4.1, V5.0, or V5.1

WebSphere DataPower Virtual Edition, deployed on Workload Deployer V3.1, requires one of the following:

- VMware ESX V4.0 Update 2 or V4.1
- VMware ESXi V4.0 Update 2, V4.1, or V5.0

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging

This product is available via electronic download.

Software Services

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Ordering information

Charge metric

Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

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License Information form number

L-DCHN-946KMC - WebSphere DataPower firmware V6.0

Limited warranty applies

Yes

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Program technical support

Yes

Usage restriction

Yes. WebSphere DataPower Virtual Edition is supported for the lifecycle of the corresponding WebSphere DataPower firmware version. WebSphere DataPower Virtual Edition V6.0 has the same end of support date as the WebSphere DataPower firmware V6.0.

WebSphere DataPower provides a minimum of two years of support for each firmware release beginning at the general availability of the release. WebSphere DataPower customers with active subscription and support are entitled to the latest three levels of firmware support. These releases with the latest updates will be available on the support website. Releases of the WebSphere DataPower firmware that are older than two years and are not within the three latest levels of firmware are subject to withdrawal of support.

You will receive a notification of discontinuance of firmware support with 12 months' notice.

For additional information, visit

<http://www.ibm.com/support/docview.wss?rs=2362&uid=swg21246298>

This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support also provides you with access to updates (modifications or fixes), and releases.

Software Subscription and Support applies

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System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

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